

WHAT IS CLAIMED IS:

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1. A method of creating a backup disc of a hybrid type source optical disc having a read-only storage area and a writable storage area, the method comprising:

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a qualification determination step of determining whether or not a target optical disc is qualified as the backup disc of the hybrid type source optical disc by comparing the source optical disc to the target optical disc based on information recorded in the source optical disc and the target optical disc;

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a loading step of loading, when it is determined that the target optical disc is qualified as the backup disc, backup information from the source optical disc; and

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a writing step of writing the backup information in the target optical disc.

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2. The method as claimed in claim 1, further comprising:

a disc determination step of determining whether or not the target optical disc is a hybrid type disc, and

wherein the qualification determination step occurs when the disc determination step determines that the target optical disc is a hybrid type disc.

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3. The method as claimed in claim 1, further comprising:

15 a disc determination step of determining whether or not the target optical disc has predetermined compatibility with the hybrid type source optical disc, and

wherein the qualification determination step occurs when the disc determination step determines that the target optical disc has predetermined compatibility with the hybrid type source optical disc.

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4. The method as claimed in claim 1, wherein the qualification determination step comprises:

5 a substrate qualification determination step of determining whether or not the source optical disc and the target optical disc have the same substrate information; and

10 a ROM qualification determination step of determining whether or not at least a portion of ROM information of the source optical disc in a read-only storage area thereof and at least a portion of ROM information of the target optical disc in a read-only storage area thereof are the same, and

15 the qualification determination step determines that the target optical disc is qualified as the backup disc when the substrate qualification determination step determines that the source optical disc and the target optical disc have the same substrate information and the ROM qualification determination step  
20 determines that the portion of ROM information of the source optical disc and the portion of ROM information of the target optical disc are the same.

5. The method as claimed in claim 4, wherein  
the substrate information comprises at least one of  
lead-in start time, lead-out start time and a write  
5 strategy parameter.

10 6. The method as claimed in claim 4, wherein  
the qualification determination step comprises:  
a dummy data determination step of determining  
whether or not the ROM information of the target optical  
disc is dummy data when the substrate qualification  
15 determination step determines that the source optical  
disc and the target optical disc have the same substrate  
information and the ROM qualification determination step  
determines that the portion of ROM information of the  
source optical disc and the portion of ROM information  
20 of the target optical disc are not the same,  
said qualification determination step  
determining, when the dummy data determination step  
determines that the ROM information of the target  
optical disc is dummy data, that the target optical disc  
25 is qualified as the backup disc.

5           7. The method as claimed in claim 1, wherein  
the backup information comprises RAM information  
recorded in a writable storage area of the source  
optical disc, and the writing step writes said RAM  
information in a writable storage area of the target  
10 optical disc.

8. The method as claimed in claim 6, wherein  
15 the backup information comprises RAM information  
recorded in a writable storage area of the source  
optical disc and the ROM information of the source  
optical disc, and the writing step writes said RAM  
information and said ROM information in a writable  
20 storage area of the target optical disc when the  
qualification determination step determines that the  
target optical disc is qualified as the backup disc  
based on determination of the dummy data determination  
step.

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9. The method as claimed in claim 1, wherein  
5 the hybrid type disc comprises a CD descent disc or a  
DVD descent disc.

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10. A system of creating a backup disc of a  
hybrid type source optical disc having a read-only  
storage area and a writable storage area, comprising:

a qualification determination part determining  
15 whether or not a target optical disc is qualified as the  
backup disc of the hybrid type source optical disc by  
comparing the source optical disc to the target optical  
disc based on information recorded in the source optical  
disc and the target optical disc;

20 a loading part loading, when it is determined  
that the target optical disc is qualified as the backup  
disc, backup information from the source optical disc;  
and

a writing part writing the backup information  
25 in the target optical disc.

5                    11. The system as claimed in claim 10,  
further comprising:

                    a disc determination part determining whether  
or not the target optical disc is a hybrid type disc,  
and

10                   wherein the qualification determination part  
determines whether or not the target optical disc is  
qualified as the backup disc when the disc determination  
part determines that the target optical disc is a hybrid  
type disc.

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                    12. The system as claimed in claim 10,  
20 further comprising:

                    a disc determination part determining whether  
or not the target optical disc has predetermined  
compatibility with the hybrid type source optical disc,  
and

25                   wherein the qualification determination part

determines whether or not the target optical disc is  
qualified as the backup disc when the disc determination  
part determines that the target optical disc has  
predetermined compatibility with the hybrid type source  
5 optical disc.

10 13. The system as claimed in claim 10,  
wherein the qualification determination part comprises:

a substrate qualification determination part  
determining whether or not the source optical disc and  
the target optical disc have the same substrate  
15 information; and

a ROM qualification determination part  
determining whether or not at least a portion of ROM  
information of the source optical disc in a read-only  
storage area thereof and at least a portion of ROM  
20 information of the target optical disc in a read-only  
storage area thereof are the same, and

the qualification determination part  
determines that the target optical disc is qualified as  
the backup disc when the substrate qualification  
25 determination part determines that the source optical



disc and the target optical disc have the same substrate  
information and the ROM qualification determination part  
determines that the portion of ROM information of the  
source optical disc and the portion of ROM information  
5 of the target optical disc are the same.

10           14. The system as claimed in claim 13,  
wherein the substrate information comprises at least one  
of lead-in start time, lead-out start time and a write  
strategy parameter.

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          15. The system as claimed in claim 13,  
wherein the qualification determination part comprises:  
20           a dummy data determination part determining  
whether or not the ROM information of the target optical  
disc is dummy data when the substrate qualification  
determination part determines that the source optical  
disc and the target optical disc have the same substrate  
25 information and the ROM qualification determination part

determines that the portion of ROM information of the source optical disc and the portion of ROM information of the target optical disc are not the same,

said qualification determination part

5 determining, when the dummy data determination part determines that the ROM information of the target optical disc is dummy data, that the target optical disc is qualified as the backup disc.

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16. The system as claimed in claim 10, wherein the backup information comprises RAM information recorded in a writable storage area of the source optical disc, and the writing part writes said RAM information in a writable storage area of the target optical disc.

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17. The system as claimed in claim 15, wherein the backup information comprises RAM information recorded in a writable storage area of the source optical disc and the ROM information of the source

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optical disc, and the writing part writes said RAM  
information and said ROM information in a writable  
storage area of the target optical disc when the  
qualification determination part determines that the  
5 target optical disc is qualified as the backup disc  
based on determination of the dummy data determination  
part:

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18. The system as claimed in claim 10,  
wherein the hybrid type disc comprises a CD descent disc  
or a DVD descent disc.

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19. A computer-readable recording medium for  
20 storing a program to cause a computer to execute a  
procedure of creating a backup disc of a hybrid type  
source optical disc having a read-only storage area and  
a writable storage area, the procedure comprising:  
a qualification determination step of  
25 determining whether or not a target optical disc is

qualified as the backup disc of the hybrid type source optical disc by comparing the source optical disc to the target optical disc based on information recorded in the source optical disc and the target optical disc;

5           a loading step of loading, when it is determined that the target optical disc is qualified as the backup disc, backup information from the source optical disc; and

          a writing step of writing the backup  
10 information in the target optical disc.

15           20. The computer-readable recording medium as claimed in claim 19, the procedure further comprising:

          a disc determination step of determining whether or not the target optical disc is a hybrid type disc, and

20           wherein the qualification determination step occurs when the disc determination step determines that the target optical disc is a hybrid type disc.

21. The computer-readable recording medium as claimed in claim 19, the procedure further comprising:

a disc determination step of determining  
5 whether or not the target optical disc has predetermined compatibility with the hybrid type source optical disc, and

wherein the qualification determination step occurs when the disc determination step determines that  
10 the target optical disc has predetermined compatibility with the hybrid type source optical disc.

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22. The computer-readable recording medium as claimed in claim 19, wherein the qualification determination step comprises:

a substrate qualification determination step  
20 of determining whether or not the source optical disc and the target optical disc have the same substrate information; and

a ROM qualification determination step of determining whether or not at least a portion of ROM  
25 information of the source optical disc in a read-only

storage area thereof and at least a portion of ROM information of the target optical disc in a read-only storage area thereof are the same, and

the qualification determination step

5 determines that the target optical disc is qualified as the backup disc when the substrate qualification determination step determines that the source optical disc and the target optical disc have the same substrate information and the ROM qualification determination step  
10 determines that the portion of ROM information of the source optical disc and the portion of ROM information of the target optical disc are the same.

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23. The computer-readable recording medium as claimed in claim 22, wherein the substrate information comprises at least one of lead-in start time, lead-out  
20 start time and a write strategy parameter.

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24. The computer-readable recording medium as

claimed in claim 22, wherein the qualification determination step comprises:

5 a dummy data determination step of determining whether or not the ROM information of the target optical disc is dummy data when the substrate qualification determination step determines that the source optical disc and the target optical disc have the same substrate information and the ROM qualification determination step determines that the portion of ROM information of the  
10 source optical disc and the portion of ROM information of the target optical disc are not the same,

said qualification determination step determining, when the dummy data determination step determines that the ROM information of the target  
15 optical disc is dummy data, that the target optical disc is qualified as the backup disc.

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25. The computer-readable recording medium as claimed in claim 19, wherein the backup information comprises RAM information recorded in a writable storage area of the source optical disc, and the writing step  
25 writes said RAM information in a writable storage area

of the target optical disc.

5           26. The computer-readable recording medium as  
claimed in claim 24, wherein the backup information  
comprises RAM information recorded in a writable storage  
area of the source optical disc and the ROM information  
of the source optical disc, and the writing step writes  
10 said RAM information and said ROM information in a  
writable storage area of the target optical disc when  
the qualification determination step determines that the  
target optical disc is qualified as the backup disc  
based on determination of the dummy data determination  
15 step.

20           27. The computer-readable recording medium as  
claimed in claim 19, wherein the hybrid type disc  
comprises a CD descent disc or a DVD descent disc.